

December 19, 2003



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Our Reference: 4320-515

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Re: U.S. Patent Application No. 10/661,518
Filing Date: September 15, 2003
For: MEMBRANE MODULE FOR GAS TRANSFER AND MEMBRANE
SUPPORTED BIOFILM PROCESS
Applicant: COTE et al.


In accordance with 37 CFR 1.56 and 1.97, the applicant hereby submits an Information Disclosure Statement including form PTO/SB/08A. Pursuant to 37 CFR 1.98(d), copies of references previously supplied by the Applicants or cited by the Office in Application Serial Nos. 10/370,527 or 09/799,524 are not being provided. Further, in accordance with the waiver by the Office of the requirement under 37 CFR 1.98(a)(2)(i) for applications filed after June 30, 2003, this Information Disclosure Statement is filed without copies of the cited U.S. Patents.

Please have this documentation recorded against the above-mentioned application.

This Information Disclosure Statement is filed within 3 months of the filing date or before the first Office Action and no fee is required. Please charge any deficiency or credit any overpayment to our deposit account No. 02-2095.

Respectfully submitted,

COTE et al.

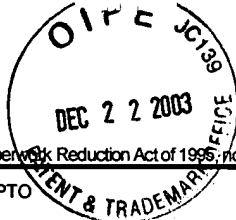

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Encl.

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/661,518
Filing Date	September 15, 2003
First Named Inventor	COTE
Group Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	4320-515

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-4,126,544	11-21-1978	Baensch et al.	
		US- 4,181,604	01-1-1980	Onishi et al.	
		US- 4,416,993	11-22-1983	McKeown, John B.	
		US- 4,746,435	05-24-1988	Onishi et al.	
		US- 4,883,594	11-28-1989	Sekoulov et al.	
		US- 5,034,164	07-31-1991	Semmens, Michael J.	
		US- 5,116,506	05-26-1992	Williamson et al.	
		US- 5,126,050	06-30-1992	Irvine et al.	
		US- 5,149,649	09-22-1992	Miyamori et al.	
		US- 6,013,511	01-11-2000	Diels et al.	
		US- 6,183,643	02-6-2001	Goodley, Mark D.	
		US- 6,531,062	03-11-2003	Whitehill, Thomas J.	
		US- 6,558,549	05-6-2003	Cote et al.	
		US- 2,458,163	01/04/1949	Hays	
		US- 5,518,620	05/21/1996	Eguchi et al.	
		US- 5,520,812	05/28/1996	Ryhiner et al	
		US- 5,543,039	08/06/1996	Odegaard	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		DE 3544382	6/05/1987	Sekoulov et al.		
		DE 4440464	6/19/1996	Dietzmann et al.		
		JP 54-21057	2/16/1979	Doriko		

Examiner
SignatureDate
Considered

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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STATEMENT BY APPLICANT**

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Sheet 2 of 2

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Group Art Unit	N/A
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Attorney Docket Number	4320-515

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Studies of a Membrane Aerated Bioreactor for Wastewater Treatment" by Dr. Michael J. Semmens and Denise Hanus, Cranfield University, June 1999.	
		"Nitrification and oxygen utilisation in a membrane aeration bioreactor" by Keith Brindle, Tom Stephenson and Michael J. Semmens, Journal of Membrane Science, 1998	
		"Bubble-free aeration using membranes: process analysis" by Pierre Côté, Jean-Luc Bersillon, Alain Huyard and Gérard Faup, Journal Water Pollution Control Federation, November 1998.	
		"Bubble-free aeration using Membranes: Mass Transfer Analysis" by Pierre Côté, Jean-Luc Bersillon, Alain Huyard, Journal of Membrane Science, 1989.	

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